

Jan DELAVAI
Please
(Thanks)

55292
Access DB#

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Josephine Young Examiner #: 49413 Date: 11/27/03
Art Unit: 1622 Phone Number 301-605-1201 Serial Number: 102014 472
Mail Box and Bldg/Room Location: 8D001 Results Format Preferred (circle): PAPER DISK (E-MAIL)
8B19

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Extraction and methods of its use
Inventors (please provide full names): KERN, Christopher; HOERGER, Christine
BARTNIK, Eckart; HAUS-SEUFFERT, Philipp
Earliest Priority Filing Date: 12/16/00

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Attached: 1) Bib Sheet; 2) Assignment Info; 3) Pending Claims; 4) Abstract.
(1-8 only)

Please search claims 1-3.

Thanks!

RECEIVED
JAN 28 2004
(STIC)

Jan Delavai
Reference Librarian
Biotechnology & Chemical Library
CM1 1E07 - 703-308-4498
jan.delavai@uspto.gov

Best Available Copy

STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: <u>[Signature]</u>	NA Sequence (#) _____	STN <u>✓</u>
Searcher Phone #: <u>414 98</u>	AA Sequence (#) _____	Dialog _____
Searcher Location: _____	Structure (#) _____	Questel/Orbit _____
Date Searcher Picked Up: <u>1/31/03</u>	Bibliographic <u>✓</u>	Dr.Link _____
Date Completed: <u>1/31/03</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: _____	Fulltext _____	Sequence Systems _____
Clerical Prep Time: <u>15</u>	Patent Family _____	WWW/Internet _____
Online Time: <u>190</u>	Other _____	Other (specify) _____

BEST AVAILABLE COPY

=> fil reg

FILE 'REGISTRY' ENTERED AT 16:35:39 ON 31 JAN 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2003 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 30 JAN 2003 HIGHEST RN 483965-49-7
DICTIONARY FILE UPDATES: 30 JAN 2003 HIGHEST RN 483965-49-7

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP
PROPERTIES for more information. See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> d ide can tot ll

L1 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2003 ACS
RN 9041-08-1 REGISTRY
CN Heparin, sodium salt (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN Alfa 87-120
CN Alfa 87-163
CN Alfa 87-198
CN Alfa 87-81
CN Alfa 88-247
CN Ardeparin sodium
CN Bemiparin sodium
CN Clexan
CN Dalteparin sodium
CN Deligoparin sodium
CN Depo-Heparin
CN **Enoxaparin sodium**
CN Fragmin
CN Fragmin IV
CN H 2149
CN Hed-Heparin
CN Hepalean
CN Heparin sodium
CN Hepathrom
CN Inno-Hep
CN Kabi 2165
CN LHN 1
CN Lioton 1000
CN Lliquaemin sodium
CN Lliquemin
CN Logiparin
CN Lovenox
CN Minolteparin sodium
CN Normiflo
CN OP 2000
CN Parnaparin sodium
CN PK 10169
CN Pularin

Jan Delaval
Reference Librarian
Biotechnology & Chemical Library
CM1 1E07 - 703-308-4498
jan.delaval@uspto.gov

CN Reviparin sodium
CN RO 11
CN RP 54563
CN Sodium acid heparin
CN Sodium heparin
CN Sodium heparinate
CN Tinzaparin sodium
CN WY 90493RD
DR 12656-11-0, 101921-26-0, 102785-31-9
MF Unspecified
CI PMS, COM, MAN
PCT Manual registration, Polyester, Polyester formed
LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS,
BIOSIS, BIOTECHNO, CA, CABA, CAPLUS, CBNB, CHEMCATS, CHEMLIST, CIN,
CSCHEM, DDFU, DETHERM*, DIOGENES, DRUGNL, DRUGPAT, DRUGU, DRUGUPDATES,
EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC,
PHAR, PHARMASEARCH, PROMT, RTECS*, TOXCENTER, USAN, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, TSCA**, WHO
(*Enter CHEMLIST File for up-to-date regulatory information)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

1031 REFERENCES IN FILE CA (1962 TO DATE)
78 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1034 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 138:69342
REFERENCE 2: 138:66690
REFERENCE 3: 138:61397
REFERENCE 4: 138:61375
REFERENCE 5: 138:49698
REFERENCE 6: 138:33098
REFERENCE 7: 138:11261
REFERENCE 8: 138:1961
REFERENCE 9: 138:221
REFERENCE 10: 137:379827

L1 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2003 ACS
RN 9005-49-6 REGISTRY
CN Heparin (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN .alpha.-Heparin
CN Bemiparin
CN Certoparin
CN Clexane
CN Clivarin
CN Clivarine
CN CY 216
CN CY 222
CN Dalteparin
CN **Enoxaparin**
CN Fluxum
CN FR 860
CN Fragmin A

CN Fragmin B
CN Fraxiparin
CN Heparin subcutan
CN Heparin sulfate
CN Heparinic acid
CN KB 101
CN Multiparin
CN Novoheparin
CN OP 386
CN OP 622
CN Pabyrn
CN Parnaparin
CN Parvoparin
CN Reviparin
CN Sandoparin
CN Sublingula
CN Tinzaparin
CN Vetren
CN Vitrum AB
DR 9075-96-1, 11078-24-3, 11129-39-8, 104521-37-1, 37324-73-5, 91449-79-5
MF Unspecified
CI PMS, COM, MAN
PCT Manual registration, Polyester, Polyester formed
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO,
CA, CABA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMLIST,
CIN, CSCHEM, DDFU, DIOGENES, DRUGNL, DRUGPAT, DRUGU, DRUGUPDATES,
EMBASE, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS,
NAPRALERT, NIOSHTIC, PHAR, PHARMASEARCH, PIRA, PROMT, RTECS*, TOXCENTER,
USAN, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, WHO
(**Enter CHEMLIST File for up-to-date regulatory information)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

19746 REFERENCES IN FILE CA (1962 TO DATE)

1876 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

19758 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 138:78563
REFERENCE 2: 138:78444
REFERENCE 3: 138:78330
REFERENCE 4: 138:78292
REFERENCE 5: 138:78289
REFERENCE 6: 138:69395
REFERENCE 7: 138:68799
REFERENCE 8: 138:66705
REFERENCE 9: 138:66434
REFERENCE 10: 138:66401

=> d his

(FILE 'HOME' ENTERED AT 15:54:18 ON 31 JAN 2003)
SET COST OFF

FILE 'REGISTRY' ENTERED AT 15:54:31 ON 31 JAN 2003

E ENOXAPARIN/CN
L1 2 S E3,E4

FILE 'MEDLINE' ENTERED AT 15:55:05 ON 31 JAN 2003

L2 36431 S L1
L3 1039 S ENOXAPARIN?
L4 55221 S HEPARIN
L5 832 S L3 AND L2,L4
L6 1039 S L3,L5
E ENOXAPARIN/CT
L7 677 S E3-E20
E E3+ALL
L8 677 S E65+NT
L9 128 S CLEXANE OR EMT 966 OR EMT 967 OR EMT966 OR EMT967 OR LOVENOX
L10 1091 S L3,L7-L9
E ENOXAPARIN/CN
L11 677 S E3
L12 1091 S L10,L11
E MATRIX METALLOPROTEASE/CT
E E15+ALL
L13 6626 S E11+NT
L14 7779 S MATRIX() (METALLOPROTEINASE OR METALLOPROTEASE OR METALLO() (PR
L15 2831 S MMP8 OR MMP2 OR MMP() (8 OR 2)
L16 3015 S NEUTROPHIL COLLAGENASE OR AGGRECANASE OR HADAMTS 1 OR GELATIN

FILE 'REGISTRY' ENTERED AT 16:00:18 ON 31 JAN 2003

E AGGRECANASE/CN
L17 1 S E3
E HADAMTS/CN
E GELATINASE/CN
L18 1 S E16
E NEUTROPHIL COLLAGENASE/CN
E COLLAGENASE/CN
L19 1 S E3
L20 3 S NEUTROPHIL(L)COLLAGENASE
E MATRIX METALLOPROTEINASE/CN
L21 1 S E3
L22 406 S MATRIX(L) (METALLOPROTEINASE OR METALLOPROTEASE)

FILE 'MEDLINE' ENTERED AT 16:02:25 ON 31 JAN 2003

L23 11 S L17-L22
L24 9723 S L13-L16,L23
L25 0 S L12 AND L24
E DEGENERATIVE JOINT/CT
E JOINT DISEASE/CT
E E5+ALL
L26 20 S C5./CT AND L12
E JOINT/CT
E JOINTS/CT
E E3+ALL
L27 22 S L12 AND A2./CT
E CONNECTIVE TISSUE/CT
L28 10 S L12 AND E3+NT
L29 1 S E5+NT AND L12
E WOUND/CT
L30 2 S E6+NT AND L12
L31 0 S E19+NT AND L12
L32 55 S E68+NT AND L12
E PERIODONTAL DISEASE/CT
L33 0 S E4+NT AND L12
L34 1 S C7./CT AND L12

L35 1 S L12 AND (A14.254. OR G10.549. OR E6. OR A12.300. OR A12.383.)
 E BONE METABOLISM/CT
 E "BONE AND BONES"/CT
 L36 10 S E3+NT AND L12
 E BONE DISEASE/CT
 L37 17 S E9+NT AND L12
 L38 32 S A11./CT AND L12
 E LOCOMOTER/CT
 L39 1 S E4+NT AND L12
 E E5+ALL
 L40 0 S E2+NT AND L12
 E OSTEOARTHROSE/CT
 E E4+ALL
 L41 1 S E2+NT AND L12
 E SPONDYLOSE/CT
 E E4+ALL
 L42 0 S E2+NT AND L12
 E CHONDROLYSIS/CT
 L43 0 S E3/BI AND L12
 E COLLAGENOSE/CT
 L44 0 S E3/BI AND L12
 E INFLAMMATION/CT
 L45 3 S E3+NT AND L12
 L46 30 S ?INFLAM? AND L12
 E CHRONIC ARTHRIT/CT
 E E4+ALL
 L47 0 S E2+NT AND L12
 E ARTHROPATH/CT
 E E6+ALL
 L48 0 S E2+NT AND L12
 E MYALGIA/CT
 E E4+ALL
 L49 0 S E2+NT AND L12
 L50 0 S E8+NT AND L12
 L51 0 S L12 AND DEGEN?(L) JOINT
 L52 0 S L12 AND CONNECTIVE TISSUE
 L53 1 S L12 AND WOUND?(L) HEAL?
 L54 0 S L12 AND ?PERIODONT?
 L55 0 S L12 AND LOCOMOTER
 L56 0 S L12 AND LOCOMOTION
 L57 2 S L12 AND BONE(L) METABOL?
 L58 32 S L12 AND (OSTEOARTH? OR SPONDYLO? OR CHONDROLYS? OR COLLAGENO
 L59 140 S L26-L58
 L60 21 S L59 NOT AB/FA
 L61 119 S L59 NOT L60
 L62 0 S L61 AND L24
 L63 0 S L61 AND MMP?
 L64 75 S L61 AND L7
 L65 57 S L61 AND L7/MAJ
 L66 51 S L65 AND PY<=2001
 SEL DN AN 10 21 51
 L67 3 S E1-E9
 L68 5 S L34,L35,L67 AND L12-L16,L23-L67
 L69 18 S L64 NOT L65-L68
 L70 44 S L61 NOT L64-L69
 SEL DN AN 2
 L71 1 S L70 AND E10-E12
 L72 6 S L68,L71 AND L12-L16,L23-L71

FILE 'REGISTRY' ENTERED AT 16:35:39 ON 31 JAN 2003

=> fil medline

FILE 'MEDLINE' ENTERED AT 16:35:53 ON 31 JAN 2003

FILE LAST UPDATED: 30 JAN 2003 (20030130/UP). FILE COVERS 1958 TO DATE.

On June 9, 2002, MEDLINE was reloaded. See HELP RLOAD for details.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2003 vocabulary. See <http://www.nlm.nih.gov/mesh/summ2003.html> for a description on changes.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d 172 all tot

L72 ANSWER 1 OF 6 MEDLINE
AN 2002718563 IN-PROCESS
DN 22368648 PubMed ID: 12480085
TI A synthetic heparin-mimicking polyanionic compound inhibits central nervous system **inflammation**.
AU Irony-Tur-Sinai Michal; Vlodavsky Israel; Ben-Sasson Shmuel A; Pinto Florence; Sicsic Camille; Brenner Talma
CS Laboratory of Neuroimmunology, Department of Neurology, Hadassah University Hospital and Hebrew University Medical School, P.O. Box 12000, 91120, Jerusalem, Israel.
SO JOURNAL OF THE NEUROLOGICAL SCIENCES, (2003 Jan 15) 206 (1) 49-57.
Journal code: 0375403. ISSN: 0022-510X.
CY Netherlands
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS IN-PROCESS; NONINDEXED; Priority Journals
ED Entered STN: 20021218
Last Updated on STN: 20021218
AB The immunomodulating capacity of heparin led us to test the effect of the synthetic heparin-mimicking and low anticoagulant compound RG-13577 on the course of experimental autoimmune encephalomyelitis (EAE) and central nervous system (CNS) **inflammation**. EAE was induced in SJL mice by inoculation with whole mouse spinal cord homogenate. RG-13577, delivered intraperitoneally, inhibited the clinical signs of acute EAE and markedly ameliorated **inflammation** in the spinal cord, primarily by inhibiting heparanase activity in lymphocytes and astrocytes and thus impairing lymphocyte traffic. RG-13577 treatment was effective when started on day of disease induction or day 7 after induction. The low molecular weight heparin, **enoxaparin**, tested under the same conditions, exerted only a minor insignificant inhibitory effect. RG-13577 also inhibited the tyrosine phosphorylation of several proteins, particularly Erk1 and Erk2 of the MAP kinase signaling pathways associated with **inflammation** and cell proliferation. RG-13577 blocked the activity of sPLA(2) and inhibited CNS PGE(2) production both in vivo and in vitro.

L72 ANSWER 2 OF 6 MEDLINE
AN 2001493430 MEDLINE
DN 21427354 PubMed ID: 11535902
TI Thromboprophylaxis with 60 mg **enoxaparin** is safe in hip trauma surgery.
AU Thaler H W; Roller R E; Greiner N; Sim E; Korninger C
CS Trauma Center Meidling, Kundratstrasse 37, A 1120 Vienna, Austria..
drthaler@aon.at
SO JOURNAL OF TRAUMA, (2001 Sep) 51 (3) 518-21.
Journal code: 0376373. ISSN: 0022-5282.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English

FS Abridged Index Medicus Journals; Priority Journals
EM 200109
ED Entered STN: 20010906
Last Updated on STN: 20011001
Entered Medline: 20010927
AB BACKGROUND: Little information is available concerning dosage and optimal initiation of thromboprophylactic therapy with low-molecular-weight heparin (**enoxaparin**) in nonelective hip surgery. The aim of our prospective study was to evaluate the incidence of clinically apparent deep vein thrombosis (DVT), pulmonary embolism (PE), and major hemorrhage in patients receiving thromboprophylaxis with **enoxaparin** undergoing hip surgery after hip fracture. METHOD: From 946 consecutive patients admitted with hip fractures, 897 were operated on and received **enoxaparin** according to the following regimen: Preoperative heparinization from time of admission onwards. Administration of 60 mg **enoxaparin**, in two doses (20 and 40 mg subcutaneously), during the first 5 days postoperatively. Prophylaxis for a minimum of 5 weeks (40 mg daily). RESULTS: Clinical signs of DVT were present in 37 patients (4.2%), who all underwent venography. In five patients, DVT was confirmed (0.6%). None of these patients suffered from PE. Another four patients (0.4%) developed clinical signs of PE, and suspected diagnosis was confirmed by computed tomographic scan in two (0.2%). No deaths because of PE were observed. Major hemorrhage occurred in 42 patients (4.7%), there was one death from hemorrhage caused by an intracerebral event. No case of heparin-induced thrombocytopenia type II was observed. CONCLUSION: Thromboprophylaxis with 60 mg **enoxaparin** daily, in split doses, starting before surgery, is safe and appropriate in patients with hip fractures. Clinically apparent DVT and PE are rarely observed, and bleeding complications are comparable to those occurring with a conventional thromboprophylactic regimen.
CT Check Tags: Female; Human; Male
Adult
Aged
Aged, 80 and over
Anticoagulants: AD, administration & dosage
*Anticoagulants: TU, therapeutic use
Comorbidity
Drug Administration Schedule
Enoxaparin: AD, administration & dosage
*Enoxaparin: TU, therapeutic use
*Femoral Neck Fractures: SU, surgery
Middle Age
Phlebography
*Postoperative Complications: PC, prevention & control
Pulmonary Embolism: ET, etiology
Reoperation
Septicemia: ET, etiology
*Venous Thrombosis: PC, prevention & control
CN 0 (Anticoagulants); 0 (**Enoxaparin**)
L72 ANSWER 3 OF 6 MEDLINE
AN 2001483050 MEDLINE
DN 21417531 PubMed ID: 11526584
TI Outpatient use of low-molecular weight heparin in an anticoagulated patient requiring oral surgery: case report.
CM Comment in: J Oral Maxillofac Surg. 2002 Mar;60(3):342
AU Todd D W; Roman A
SO JOURNAL OF ORAL AND MAXILLOFACIAL SURGERY, (2001 Sep) 59 (9) 1090-2; discussion 1092-3.
Journal code: 8206428. ISSN: 0278-2391.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English

FS Abridged Index Medicus Journals; Dental Journals; Priority Journals
EM 200109
ED Entered STN: 20010830
Last Updated on STN: 20021001
Entered Medline: 20010920
CT Check Tags: Case Report; Human; Male
Administration, Oral
Aged
*Ambulatory Surgical Procedures
*Anticoagulants: AD, administration & dosage
 ***Dental Care for Chronically Ill**
 ***Enoxaparin: AD, administration & dosage**
*Heart Valve Prosthesis
Injections, Subcutaneous
 ***Tooth Extraction**
Warfarin: AD, administration & dosage
RN 81-81-2 (Warfarin)
CN 0 (Anticoagulants); 0 (Enoxaparin)

L72 ANSWER 4 OF 6 MEDLINE
AN 2001077378 MEDLINE
DN 21013535 PubMed ID: 11127666
TI Thromboprophylaxis using a low molecular weight heparin delays fracture repair.
AU Street J T; McGrath M; O'Regan K; Wakai A; McGuinness A; Redmond H P
CS Department of Academic Surgery, Cork University Hospital/University College Cork, Ireland.
SO CLINICAL ORTHOPAEDICS AND RELATED RESEARCH, (2000 Dec) (381) 278-89.
Journal code: 0075674. ISSN: 0009-921X.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Abridged Index Medicus Journals; Priority Journals
EM 200101
ED Entered STN: 20010322
Last Updated on STN: 20010322
Entered Medline: 20010111
AB Low molecular weight heparins are significantly superior to unfractionated heparin or warfarin in the prevention of thromboembolic episodes associated with orthopaedic surgery. Therapeutic doses of heparin and warfarin have been shown to delay bone repair in a rabbit model. The current study investigated the effect of prophylactic administration of a low molecular weight heparin, **enoxaparin**, on the healing of a closed rabbit rib fracture. Fracture healing was assessed using histomorphometric, histologic, and immunohistochemical methods at 3, 7, and 14 days, and biomechanical testing with torsional loading was assessed after 21 days. Bone repair was significantly attenuated at all times in animals receiving subcutaneous **enoxaparin** compared with that of the control animals. Numerous putative mechanisms for this phenomenon are discussed, and additional studies are proposed to elucidate the effects of this pharmacologically diverse group of compounds on all aspects of bone physiology and repair.
CT Check Tags: Animal; Male
*Anticoagulants: AE, adverse effects
Biomechanics
 Bone and Bones: DE, drug effects
 Bony Callus: PA, pathology
Disease Models, Animal
 ***Enoxaparin: AE, adverse effects**
 ***Fracture Healing: DE, drug effects**
*Postoperative Complications: PC, prevention & control
Rabbits

Rib Fractures: PA, pathology
 Rib Fractures: SU, surgery
 Thrombosis: PC, prevention & control

CN 0 (Anticoagulants); 0 (Enoxaparin)

L72 ANSWER 5 OF 6 MEDLINE
 AN 1998215078 MEDLINE
 DN 98215078 PubMed ID: 9555795
 TI Low-dose low-molecular-weight heparin (enoxaparin) is beneficial
 in lichen planus: a preliminary report.
 CM Comment in: J Am Acad Dermatol. 2002 Jan;46(1):141-3
 AU Hodak E; Yosipovitch G; David M; Ingber A; Chorev L; Lider O; Cahalon L;
 Cohen I R
 CS Department of Dermatology, Rabin Medical Center, Beilinson Campus, Petah
 Tikva, and Sackler Faculty of Medicine, Tel Aviv University, Israel.
 SO JOURNAL OF THE AMERICAN ACADEMY OF DERMATOLOGY, (1998 Apr) 38
 (4) 564-8.
 Journal code: 7907132. ISSN: 0190-9622.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 199805
 ED Entered STN: 19980514
 Last Updated on STN: 20020911
 Entered Medline: 19980505
 AB BACKGROUND: Low-dose heparin devoid of anticoagulant activity inhibits
 T-lymphocyte heparanase activity, which is crucial in T-cell migration to
 target tissues. OBJECTIVE: The purpose of this study was to assess the
 efficacy of low-dose enoxaparin (Clexane), a
 low-molecular-weight heparin, as monotherapy in lichen planus. METHODS:
 Included in the study were 10 patients with widespread histopathologically
 proven lichen planus (LP) associated with intense pruritus of several
 months' duration. Patients were given 3 mg enoxaparin,
 subcutaneously once weekly; three patients received four injections, and
 seven patients received six injections. RESULTS: In nine patients the itch
 disappeared within 2 weeks. Within 4 to 10 weeks in eight of these
 patients, there was complete regression of the eruption with residual
 postinflammatory hyperpigmentation; in one patient, there was
 marked improvement. In one patient, no effect was observed. Of the four
 patients who also had oral LP, only one showed improvement. No side
 effects were observed in any of the patients. CONCLUSION: These findings
 indicate that enoxaparin may be a simple, effective treatment
 for cutaneous LP.
 CT Check Tags: Female; Human; Male
 Adult
 Aged
 Biopsy
 *Enoxaparin: AD, administration & dosage
 Enoxaparin: TU, therapeutic use
 Follow-Up Studies
 *Lichen Planus: DT, drug therapy
 Lichen Planus: PA, pathology
 Lichen Planus, Oral: DT, drug therapy
 Lichen Planus, Oral: PA, pathology
 Middle Age
 Skin: PA, pathology
 Time Factors
 Treatment Outcome
 CN 0 (Enoxaparin)

L72 ANSWER 6 OF 6 MEDLINE
 AN 94055646 MEDLINE

DN 94055646 PubMed ID: 8237316
TI Increased blood loss after preoperative NSAID. Retrospective study of 186
hip arthroplasties.
AU Fauno P; Petersen K D; Husted S E
CS Department of Orthopedics E, University Hospital of Aarhus, Denmark.
SO ACTA ORTHOPAEDICA SCANDINAVICA, (1993 Oct) 64 (5) 522-4.
Journal code: 0370352. ISSN: 0001-6470.
CY Denmark
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199312
ED Entered STN: 19940117
Last Updated on STN: 19940117
Entered Medline: 19931222
AB We have evaluated bleeding during and after hip replacement in 186
patients in relation to preoperative intake of nonsteroidal anti-
inflammatory drugs (NSAID) combined with low molecular weight
heparin. NSAID was associated with increased preoperative bleeding and
blood transfusion requirements.
CT Check Tags: Female; Human; Male
Aged
Anti-Inflammatory Agents, Non-Steroidal: AE, adverse effects
Anti-Inflammatory Agents, Non-Steroidal: TU, therapeutic use
*Aspirin: AE, adverse effects
Aspirin: TU, therapeutic use
*Blood Loss, Surgical
Blood Loss, Surgical: PC, prevention & control
*Enoxaparin: AE, adverse effects
Enoxaparin: TU, therapeutic use
*Hip Prosthesis: AE, adverse effects
Hip Prosthesis: MT, methods
Middle Age
*Premedication: AE, adverse effects
Retrospective Studies
RN 50-78-2 (Aspirin)
CN 0 (Anti-Inflammatory Agents, Non-Steroidal); 0
(Enoxaparin)

=> fil hcaplus

FILE 'HCAPLUS' ENTERED AT 17:50:25 ON 31 JAN 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is
held by the publishers listed in the PUBLISHER (PB) field (available
for records published or updated in Chemical Abstracts after December
26, 1996), unless otherwise indicated in the original publications.
The CA Lexicon is the copyrighted intellectual property of the
the American Chemical Society and is provided to assist you in searching
databases on STN. Any dissemination, distribution, copying, or storing
of this information, without the prior written consent of CAS, is
strictly prohibited.

FILE COVERS 1907 - 31 Jan 2003 VOL 138 ISS 6
FILE LAST UPDATED: 30 Jan 2003 (20030130/ED)

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> d all tot 1137

L137 ANSWER 1 OF 5 HCAPLUS COPYRIGHT 2003 ACS

AN 2002:465826 HCAPLUS

DN 137:28331

TI Use of low-molecular-weight heparin
for treating osteoarthritis and other diseases

IN Kern, Christopher; Hoerber, Christine; Bartnik,
Eckart; Haus-Seuffert, Philipp

PA Aventis Pharma Deutschland G.m.b.H., Germany

SO PCT Int. Appl., 19 pp.

CODEN: PIXXD2

DT Patent

LA German

IC ICM A61K031-715

ICS A61K031-70; A61P019-02

CC 1-12 (Pharmacology)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002047696	A1	20020620	WO 2001-EP14261	20011205
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	AU 2002021935	A5	20020624	AU 2002-21935	20011205
	US 2002128226	A1	20020912	US 2001-14472	20011214
PRAI	DE 2000-10063006	A	20001216		
	WO 2001-EP14261	W	20011205		
AB	The invention discloses the use of low mol. heparin for producing medicaments for the prophylaxis and treatment of diseases in the course of which increased activity of at least one of the matrix metalloproteinases neutrophil collagenase, aggrecanase, hADAMTSI and gelatinase A are involved.				
ST	matrix metalloproteinase disease treatment low mol wt heparin; osteoarthritis treatment low mol wt heparin				
IT	Arthritis (chronic and acute; low-mol.-wt. heparin for treating osteoarthritis and other diseases)				
IT	Cartilage (degeneration; low-mol.-wt. heparin for treating osteoarthritis and other diseases)				
IT	Connective tissue Joint, anatomical Periodontium (disease; low-mol.-wt. heparin for treating osteoarthritis and other diseases)				
IT	Wound healing (disorder; low-mol.-wt. heparin for treating osteoarthritis and other diseases)				
IT	Joint, anatomical (immobilized; low-mol.-wt. heparin for treating osteoarthritis and other diseases)				

)

IT Drug delivery systems
(inhalants; low-mol.-wt. heparin
for treating osteoarthritis and other diseases)

IT Drug delivery systems
(injections, i.p.; low-mol.-wt.
heparin for treating osteoarthritis and other diseases)

IT Drug delivery systems
(injections, i.v.; low-mol.-wt.
heparin for treating osteoarthritis and other diseases)

IT Drug delivery systems
(injections, intraarticular; low-mol.-wt.
heparin for treating osteoarthritis and other diseases)

IT Drug delivery systems
(injections, s.c.; low-mol.-wt.
heparin for treating osteoarthritis and other diseases)

IT Anti-inflammatory agents
 Antiarthritics
 Chondrocyte
 Human
 Musculoskeletal diseases
 Osteoarthritis
 Test kits
 (low-mol.-wt. heparin for
 treating osteoarthritis and other diseases)

IT Joint, anatomical
(meniscus, injury; low-mol.-wt.
heparin for treating osteoarthritis and other diseases
)

IT Muscle, disease
(myalgia; low-mol.-wt.
heparin for treating osteoarthritis and other diseases)

IT Drug delivery systems
(oral; low-mol.-wt. heparin for
treating osteoarthritis and other diseases)

IT Bone, disease
(osteopenia; low-mol.-wt.
heparin for treating osteoarthritis and other diseases)

IT Bone
(patella, injury; low-mol.-wt.
heparin for treating osteoarthritis and other diseases)

IT Drug delivery systems
(rectal; low-mol.-wt. heparin
for treating osteoarthritis and other diseases)

IT Ligament
(torn; low-mol.-wt. heparin for
treating osteoarthritis and other diseases)

IT Drug delivery systems
(transdermal; low-mol.-wt.
heparin for treating osteoarthritis and other diseases)

IT Spinal column
(vertebra, spondylosis; low-mol.-
wt. heparin for treating osteoarthritis and other
diseases)

IT 9001-12-1, Matrix metalloproteinase 8
79955-99-0, Matrix metalloproteinase 3
141907-41-7, Matrix metalloproteinase
146480-35-5, Gelatinase A 147172-61-0
, Aggrecanase 241475-68-3, Metalloproteinase ADAMTS1
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(low-mol.-wt. heparin for
treating osteoarthritis and other diseases)

IT 9005-49-6, Heparin, biological studies

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(low-mol.-wt. heparin for
treating osteoarthritis and other diseases)

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE

- (1) Aventis Pharma Sa; WO 0129055 A 2001 HCAPLUS
- (2) Cohen, I; WO 9219249 A 1992 HCAPLUS
- (3) Cohen, I; US 5686431 A 1997 HCAPLUS
- (4) Ohashi, N; US 5648359 A 1997 HCAPLUS
- (5) Talma, E; WO 0040225 A 2000 HCAPLUS

L137 ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2003 ACS

AN 2001:670210 HCAPLUS

DN 135:339008

TI Influence of different **heparins** on bone defect healing

AU Kock, H.-J.; Werther, S.; Herrmanns, B.; Schmit-Neuerburg, K. P.

CS Experimentelle Unfallchirurgie, Universitätsklinikum GHS Essen, Germany

SO Chirurgisches Forum fuer Experimentelle und Klinische Forschung (2001)
407-408

CODEN: CFEKA7; ISSN: 0303-6227

PB Springer-Verlag

DT Journal

LA German

CC 1-8 (Pharmacology)

AB Unfractionated **heparins** in high dosage are well known to cause
side effects in fracture repair and bone remodeling. **Low**
mol. wt. heparins, which have gained
importance in antithrombotic therapy over the last decade, have not yet
been investigated in regards to their possible effects on fracture repair.
In a standardized rabbit bone defect model the effect of high doses of
unfractionated **heparin** (UFH, n = 10), **low mol**
. wt. heparin (LMWH, n = 10) and 0.9% NaCl (control, n
= 10) on bone repair after 6 wk of application were studied by
fluorescence, light and electron microscopy. The results of this blind
investigation revealed increased bone defects in the UFH group, compared
to non-significant increases in the LMWH group. Cell structures and bone
matrix in the UFH showed degenerative changes only in the UFH group. The
authors conclude from these findings that high-dose UFH can cause a
relevant delay in bone defect healing after 6 wk, whereas LMWH in high
dosage did not show such effects. Osteoblast dysfunction seems to be a
possible explanation for this effect and should be investigated further.

ST **heparin** bone defect healing antithrombotic

IT **Bone, disease**

(defect; influence of different **heparins** on bone
defect healing)

IT Anticoagulants

(influence of different **heparins** on bone defect healing)

IT 9005-49-6, Certoparin, biological studies

RL: BAC (Biological activity or effector, except adverse); BSU
(Biological study, unclassified); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)

(low mol. wt.; influence of different
heparins on bone defect healing)

IT 9041-08-1, Sodium **heparin**

RL: ADV (Adverse effect, including toxicity); THU (Therapeutic
use); BIOL (Biological study); USES (Uses)

(unfractionated; influence of different **heparins** on bone
defect healing)

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE

- (1) Bhandari, M; Thrombosis and Haemostasis 1998, V80, P413 HCAPLUS
- (2) Schlachetzki, J; Fortschr Med 1969, V87, P119 HCAPLUS

(3) Stinchfield, F; J Bone Joint Surg 1956, V38-A, P270

L137 ANSWER 3 OF 5 HCAPLUS COPYRIGHT 2003 ACS

AN 2001:259178 HCAPLUS

DN 135:205196

TI Low molecular weight heparin

therapy delays fracture healing

AU Street, J. T.; McGrath, M.; O'Regan, K.; Redmond, H. H.

CS Department of Academic Surgery, Cork University Hospital, Cork, Ire.

SO Trauma, Shock, Inflammation and Sepsis: Pathophysiology, Immune Consequences and Therapy, World Congress, 5th, Munich, Germany, Feb. 29-Mar. 4, 2000 (2000), 649-654. Editor(s): Faist, Eugen. Publisher: Monduzzi Editore, Bologna, Italy.

CODEN: 69BDIP

DT Conference

LA English

CC 1-8 (Pharmacology)

Section cross-reference(s): 14

AB Low-mol.-wt. heparins (LMWH) bind

to vascular cells and prolonged dosage causes osteopenia. Endothelial cells and pericytes disassoc. from the fracture callus vasculature and become osteoprogenitor units. Acute exposure to fracture hematoma is cytotoxic to endothelial and bone-forming cells. The authors' hypothesised that LMWH therapy would alter callus vascular disassembly and promote interfragmentary hematoma collection thus delaying fracture healing. Using a rabbit rib fracture healing model the authors demonstrate that daily s.c. administration of a therapeutic dosage of LMWH significantly delays fracture healing at 7 and 14 days. Using histol. and immunohistochem. methods this study illustrates that LMWH therapy prolongs interfragmentary hematoma accumulation, delays vascular disassembly, attenuates osteoprogenitor unit development, and inhibits endochondral ossification and callus maturation.

ST heparin therapy fracture healing delay

IT Bone, disease

(callus; low-mol.-wt.

heparin therapy delays fracture healing)

IT Hemorrhage

(hematoma; low-mol.-wt. heparin

therapy delays fracture healing)

IT Bone formation

Cytotoxicity

Wound healing

(low-mol.-wt. heparin therapy

delays fracture healing)

IT Bone, disease

(osteopenia; low-mol.-wt.

heparin therapy delays fracture healing)

IT 9005-49-6, Heparin, biological studies

RL: BAC (Biological activity or effector, except adverse); BSU

(Biological study, unclassified); BIOL (Biological study)

(low-mol.-wt. heparin therapy

delays fracture healing)

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

(1) Bhandari, M; Thromb Haemost 1998, V80(3), P413 HCAPLUS

(2) Brighton, C; J Orthop Trauma 1997, V11(4), P244 MEDLINE

(3) Gerber, H; Nat Med 1999, V5(6), P623 HCAPLUS

(4) Huo, M; J Orthop Res 1991, V9(3), P383 HCAPLUS

(5) Muir, J; Blood 1997, V89(9), P3236 HCAPLUS

(6) Street, J; Surg Forum 1999, V50, P527 HCAPLUS

(7) Weitz, J; N Eng J Med 1997, V337(10), P688 HCAPLUS

L137 ANSWER 4 OF 5 HCAPLUS COPYRIGHT 2003 ACS

AN 2000:572630 HCAPLUS
DN 134:51186
TI **Low-molecular-weight heparin**
prophylaxis using dalteparin extended out-of-hospital vs in-hospital
warfarin/out-of-hospital placebo in hip arthroplasty patients: A
double-blind, randomized comparison
AU Hull, Russell D.; Pineo, Graham F.; Francis, Charles; Bergqvist, David;
Fellenius, Karin; Soderberg, Karin; Holmqvist, Anna; Mant, Michael; Dear,
Richard; Baylis, Barry; Mah, Andrew; Brant, Rollin
CS The North American Fragmin Trial Investigators, Thrombosis Research Unit,
University of Calgary, Calgary, AB, Can.
SO Archives of Internal Medicine (2000), 160(14), 2208-2215
CODEN: AIMDAP; ISSN: 0003-9926
PB American Medical Association
DT Journal
LA English
CC 1-8 (Pharmacology)
AB No randomized trials have directly evaluated the need for extended
out-of-hospital thromboprophylaxis for patients who have hip arthroplasty
in the United States or Canada. The uncertainty as to the need for
extended prophylaxis in North American patients is complicated by early
hospital discharge, resulting in a short thromboprophylaxis interval. To
resolve this uncertainty, we performed a randomized double-blind trial in
569 patients who underwent hip arthroplasty comparing the use of
dalteparin sodium started immediately before surgery or early after
surgery and extended out-of-hospital to an overall interval of 35 days
with the use of warfarin sodium in-hospital and placebo out-of-hospital.
For patients with interpretable venograms in the preoperative,
postoperative, and combined dalteparin groups, new proximal vein
thrombosis out-of-hospital was obsd. in 1.3%, 0.7% ($P=.04$), and 1.0%
($P=.02$) of patients, resp., compared with 4.8% in the in-hospital
warfarin/out-of-hospital placebo group. The resp. overall cumulative
frequencies of all deep vein thrombosis were 30 (17.2%) of 174 patients
($P<.001$), 38 (22.2%) of 171 ($P=.003$), and 68 (19.7%) of 345 ($P<.001$) in
the dalteparin groups compared with 69 (36.7%) of 188 for the in-hospital
warfarin/out-of-hospital placebo group. For proximal deep vein
thrombosis, the resp. frequencies were 5 (3.1%) of 162 ($P=.02$), 3 (2.0%)
of 151 ($P=.007$), and 8 (2.6%) of 313 ($P=.002$) compared with 14 (9.2%) of
153. No major bleeding occurred during the extended prophylaxis interval.
Extended dalteparin prophylaxis resulted in significantly lower
frequencies of deep vein thrombosis compared with in-hospital warfarin
therapy. Despite in-hospital thromboprophylaxis, patients having hip
arthroplasty in the United States and Canada remain at moderate risk
out-of-hospital. The no. needed to treat provides a public health focus;
only 24 to 28 patients require extended prophylaxis to prevent 1 new
out-of-hospital proximal vein thrombosis. Recent studies demonstrate that
asymptomatic deep vein thrombi cause the postphlebotic syndrome; thus,
extended out-of-hospital prophylaxis will lessen the burden to both the
patient and society.
ST anticoagulant **heparin** dalteparin warfarin hip arthroplasty
IT **Joint, anatomical**
(arthroplasty, hip; low-mol.-wt.
heparin prophylaxis using dalteparin extended out-of-hospital
vs in-hospital warfarin/out-of-hospital placebo in hip arthroplasty
patients)
IT **Hip**
(arthroplasty; low-mol.-wt.
heparin prophylaxis using dalteparin extended out-of-hospital
vs in-hospital warfarin/out-of-hospital placebo in hip arthroplasty
patients)
IT Anticoagulants
Thrombosis
(low-mol.-wt. **heparin**

prophylaxis using dalteparin extended out-of-hospital vs in-hospital warfarin/out-of-hospital placebo in hip arthroplasty patients)

IT Vein

(phlebitis; **low-mol.-wt. heparin**

prophylaxis using dalteparin extended out-of-hospital vs in-hospital warfarin/out-of-hospital placebo in hip arthroplasty patients)

IT 129-06-6, Warfarin sodium **9041-08-1**, Dalteparin sodium

RL: ADV (Adverse effect, including toxicity); **BAC (Biological activity or effector, except adverse)**; BSU (Biological study, unclassified); **THU (Therapeutic use)**; BIOL (Biological study); USES (Uses)

(**low-mol.-wt. heparin**

prophylaxis using dalteparin extended out-of-hospital vs in-hospital warfarin/out-of-hospital placebo in hip arthroplasty patients)

IT **9005-49-6, Heparin**, biological studies

RL: ADV (Adverse effect, including toxicity); **BAC (Biological activity or effector, except adverse)**; BSU (Biological study, unclassified); **THU (Therapeutic use)**; BIOL (Biological study); USES (Uses)

(**low-mol.-wt; low-mol**

.-wt. heparin prophylaxis using dalteparin extended out-of-hospital vs in-hospital warfarin/out-of-hospital placebo in hip arthroplasty patients)

RE.CNT 73 THERE ARE 73 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Anon; Evidence-Based Medicine: How to Practice and Teach 1997
- (2) Anon; Int Angiol 1997, V16, P3
- (3) Armitage, P; Statistical Methods in Medical Research. 2nd ed 1987, P93
- (4) Bergqvist, D; N Engl J Med 1996, V335, P696 HCAPLUS
- (5) Bookstein, J; Radiology 1974, V110, P25 MEDLINE
- (6) Borris, L; Thromb Haemost 1989, V61, P363 MEDLINE
- (7) Campling, E; Report of the National Confidential Enquiry Into Perioperative Deaths: 1991/1992 1993
- (8) Campling, E; Report of the National Confidential Enquiry Into Perioperative Deaths: 1992/1993 1994
- (9) Clagett, G; Chest 1998, V114(5 suppl), P531S MEDLINE
- (10) Colwell, C; J Bone Joint Surg 1999, V81, P932
- (11) Colwell, C; J Bone Joint Surg Am 1994, V76, P3
- (12) Comerota, A; J Vasc Surg 1988, V7, P40 MEDLINE
- (13) Cook, R; BMJ 1995, V310, P452 MEDLINE
- (14) Dahl, O; Acta Orthop Scand 1998, V69, P339 MEDLINE
- (15) Dahl, O; Thromb Haemost 1997, V77, P26 HCAPLUS
- (16) Dahl, O; Thromb Res 1995, V80, P299 HCAPLUS
- (17) Danish Enoxaparin Study Group; Arch Intern Med 1991, V151, P1621
- (18) Davidson, B; Ann Intern Med 1992, V117, P735 MEDLINE
- (19) Detournay, B; Pharmacoeconomics 1998, V13, P81 MEDLINE
- (20) Eriksson, B; J Bone Joint Surg Am 1991, V73, P484 MEDLINE
- (21) Eriksson, B; N Engl J Med 1997, V337, P1329 HCAPLUS
- (22) Francis, C; J Bone Joint Surg Am 1997, V79, P1365 MEDLINE
- (23) Francis, C; JAMA 1992, V267, P2911 MEDLINE
- (24) German Hip Arthroplasty Trial (GHAT) Group; Arch Orthop Trauma Surg 1992, V111, P110
- (25) Ginsberg, J; Radiology 1991, V181, P651 MEDLINE
- (26) Goldhaber, S; Lancet 1999, V353, P1386 MEDLINE
- (27) Graafsma, Y; Thromb Haemost 1997, V78, P1189 HCAPLUS
- (28) Guyatt, G; Chest 1998, V114, P441S HCAPLUS
- (29) Hamulyak, K; Thromb Haemost 1995, V74, P1428 HCAPLUS
- (30) Hoek, J; Thromb Haemost 1992, V67, P28 MEDLINE
- (31) Huisman, M; Chest 1989, V95, P498 MEDLINE
- (32) Hull, R; Arch Intern Med 2000, V160, P2199 HCAPLUS
- (33) Hull, R; Arch Intern Med 2000, V160, P229 HCAPLUS
- (34) Hull, R; Chest 1985, V88, P819 MEDLINE
- (35) Hull, R; JAMA 1990, V263, P2313 MEDLINE

- (36) Hull, R; N Engl J Med 1979, V301, P855 MEDLINE
- (37) Hull, R; N Engl J Med 1993, V329, P1370 MEDLINE
- (38) Lassen, M; Acta Orthop Scand 1991, V62, P33 MEDLINE
- (39) Lassen, M; Thromb Res 1998, V89, P281 HCAPLUS
- (40) Leclerc, J; Arch Intern Med 1998, V158, P873 MEDLINE
- (41) Levine, M; Ann Intern Med 1991, V114, P545 MEDLINE
- (42) Leyvraz, P; BMJ 1991, V303, P543 MEDLINE
- (43) Lieberman, J; J Bone Joint Surg Am 1997, V79, P319 MEDLINE
- (44) Lindblad, B; Br J Surg 1991, V78, P849 MEDLINE
- (45) Lumpkin, M; Anesthesiology 1998, V88, P27A MEDLINE
- (46) Marchetti, M; Haematologica 1999, V84, P726
- (47) Mohr, D; Arch Intern Med 1993, V153, P2221 MEDLINE
- (48) Mohr, D; Mayo Clin Proc 1992, V67, P861 MEDLINE
- (49) Moser, K; Ann Intern Med 1981, V94, P439 MEDLINE
- (50) Murray, D; J Bone Joint Surg Br 1996, V78, P863 MEDLINE
- (51) Nordstrom, M; J Intern Med 1992, V232, P155 MEDLINE
- (52) PIOPED Investigators; JAMA 1990, V263, P2753
- (53) Pellegrini, V; Clin Orthop 1996, V333, P27
- (54) Planes, A; Blood Coagul Fibrinolysis 1993, V4(suppl 1), PS33
- (55) Planes, A; J Bone Joint Surg Br 1991, V73, P418 MEDLINE
- (56) Planes, A; Lancet 1996, V348, P224 HCAPLUS
- (57) Planes, A; Thromb Haemost 1988, V60, P407 MEDLINE
- (58) Planes, A; Thromb Haemost 1999, V81, P22 HCAPLUS
- (59) Rabinov, K; Arch Surg 1972, V104, P134 MEDLINE
- (60) Robinson, K; Ann Intern Med 1997, V127, P439 MEDLINE
- (61) Rubenstein, I; Arch Intern Med 1988, V148, P1425
- (62) Samanta, C; Br J Anaesth 1997, V78, P660
- (63) Sandler, D; J R Soc Med 1989, V82, P203 MEDLINE
- (64) Silverstein, M; Arch Intern Med 1998, V158, P585 MEDLINE
- (65) Siragusa, S; Blood 1998, V92(suppl 1), P47a
- (66) Spiro, T; Ann Intern Med 1994, V121, P81 MEDLINE
- (67) Stein, P; Chest 1995, V108, P978 MEDLINE
- (68) Torholm, C; J Bone Joint Surg Br 1991, V73, P434 MEDLINE
- (69) Turpie, A; N Engl J Med 1986, V315, P925 MEDLINE
- (70) Vandermeulen, E; Anesth Analg 1994, V79, P1165 MEDLINE
- (71) Warwick, D; J Bone Joint Surg Br 1995, V77, P6 MEDLINE
- (72) Wells, P; Ann Intern Med 1995, V122, P47 MEDLINE
- (73) White, R; Arch Intern Med 1998, V158, P1525 MEDLINE

L137 ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2003 ACS

AN 1994:622000 HCAPLUS

DN 121:222000

TI Use of **heparins** for the treatment of inflammatory or immunological diseases

IN Von Arnim, Ulrich-Christoph

PA Germany

SO PCT Int. Appl., 38 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM A61K031-725

CC 1-7 (Pharmacology)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9418988	A2	19940901	WO 1994-EP506	19940222
	WO 9418988	A3	19941110		
	W: AU, CA, JP, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	CA 2156735	AA	19940901	CA 1994-2156735	19940222
	AU 9462045	A1	19940914	AU 1994-62045	19940222
PRAI	EP 1993-102750		19930222		
	WO 1994-EP506		19940222		

- AB A pharmaceutical for the treatment of inflammatory or immunol. diseases comprises **heparins**, heparinoids, proteoglycans, or low-mol.-wt. **heparins** or a mixt. thereof or a combination of low-mol.-wt. **heparins** and Prostavasin. These preps. can be used for treatment of multiple sclerosis, graft-vs.-host reaction, primary biliary cirrhosis, post-infarct syndrome, lupus erythematosus, rheumatism, migraine, hyper-IgE syndrome, neuritis, Crohn's disease, and systemic carcinomas such as leukemia and lymphoma. Thus, multiple sclerosis patients with respiratory failure who received fragmin D (low-mol.-wt. **heparin**) (5 IU/kg/day s.c.) showed a 50% decrease in no. and size of sclerotic plaques in the central nervous system (by NMR scan) and decreased dependence on a respirator.
- ST **heparin** inflammation inhibitor; immunol disease treatment **heparin**; multiple sclerosis treatment **heparin**; autoimmune disease treatment **heparin**
- IT **Inflammation inhibitors**
Lupus erythematosus
Multiple sclerosis
(**heparins** for treatment of inflammatory or immunol. diseases)
- IT Proteoglycans, biological studies
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(**heparins** for treatment of inflammatory or immunol. diseases)
- IT Intestine, disease
(Crohn's, **heparins** for treatment of inflammatory or immunol. diseases)
- IT Immunoglobulins
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(E, metabolic disorders, hyperimmunoglobulin E-recurrent infection syndrome, **heparins** for treatment of inflammatory or immunol. diseases)
- IT **Inflammation inhibitors**
(**antirheumatics**, **heparins** for treatment of inflammatory or immunol. diseases)
- IT Neoplasm inhibitors
(carcinoma, **heparins** for treatment of inflammatory or immunol. diseases)
- IT Biliary tract
(disease, primary biliary cirrhosis, **heparins** for treatment of inflammatory or immunol. diseases)
- IT Immunity
(disorder, **heparins** for treatment of inflammatory or immunol. diseases)
- IT Transplant and Transplantation
(graft-vs.-host reaction, **heparins** for treatment of inflammatory or immunol. diseases)
- IT Mucopolysaccharides, biological studies
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(heparinoids, **heparins** for treatment of inflammatory or immunol. diseases)
- IT Heart, disease
(infarction, post-infarct syndrome; **heparins** for treatment of inflammatory or immunol. diseases)
- IT Neoplasm inhibitors
(leukemia, **heparins** for treatment of inflammatory or immunol. diseases)
- IT Neoplasm inhibitors
(lymphoma, **heparins** for treatment of inflammatory or immunol. diseases)

diseases)
IT Headache
(migraine, **heparins** for treatment of inflammatory or immunol.
diseases)
IT Nerve, disease
(neuritis, **heparins** for treatment of inflammatory or immunol.
diseases)
IT 133310-33-5, Prostavasin
RL: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES
(Uses)
(combination with **low-mol.-wt.**
heparin; **heparins** for treatment of inflammatory or
immunol. diseases)
IT 9005-49-6, Heparin, biological studies
9005-49-6D, Heparin, low-mol.-
wt. 9041-08-1, Fragmin
RL: BAC (Biological activity or effector, except adverse); BSU
(Biological study, unclassified); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(**heparins** for treatment of inflammatory or immunol. diseases)

=> fil wpix
FILE 'WPIX' ENTERED AT 18:01:33 ON 31 JAN 2003
COPYRIGHT (C) 2003 THOMSON DERWENT

FILE LAST UPDATED: 29 JAN 2003 <20030129/UP>
MOST RECENT DERWENT UPDATE: 200307 <200307/DW>
DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE

>>> DUE TO TECHNICAL ISSUES THE SDIS FOR UPDATES 200302-200304
BASED ON ENTRY DATE (ED) MAY CONTAIN DOCUMENTS PREVIOUSLY
DISTRIBUTED. IF YOU ENCOUNTER ANY SURPLUS DOCUMENTS OF THIS
KIND, PLEASE CONTACT OUR HELPDESKS. UNJUSTIFIED CHARGES
INCURRED WILL BE REVOKED OF COURSE.
WE APOLOGIZE FOR ANY INCONVENIENCE CAUSED. <<<

>>> SLART (Simultaneous Left and Right Truncation) is now
available in the /ABEX field. An additional search field
/BIX is also provided which comprises both /BI and /ABEX <<<

>>> PATENT IMAGES AVAILABLE FOR PRINT AND DISPLAY <<<

>>> FOR DETAILS OF THE PATENTS COVERED IN CURRENT UPDATES,
SEE <http://www.derwent.com/dwpi/updates/dwpicov/index.html> <<<

>>> FOR A COPY OF THE DERWENT WORLD PATENTS INDEX STN USER GUIDE,
PLEASE VISIT:
http://www.stn-international.de/training_center/patents/stn_guide.pdf <<<

>>> FOR INFORMATION ON ALL DERWENT WORLD PATENTS INDEX USER
GUIDES, PLEASE VISIT:
http://www.derwent.com/userguides/dwpi_guide.html <<<

=> d all abeq tech abex tot

L171 ANSWER 1 OF 2 WPIX (C) 2003 THOMSON DERWENT

AN 2002-528128 [56] WPIX

DNC C2002-149517

TI Treatment of diseases associated with neutrophilic collagenase,

aggrecanase, hADAMTS1 and/or gelatinase A, e.g. osteoarthritis or spondylitis, using low-molecular heparin as matrix metalloproteinase inhibitor.

DC B04

IN BARTNIK, E; HAUS-SEUFFERT, P; HOERBER, C; KERN, C

PA (BART-I) BARTNIK E; (HAUS-I) HAUS-SEUFFERT P; (HOER-I) HOERBER C; (KERN-I) KERN C; (AVET) AVENTIS PHARMA DEUT GMBH

CYC 99

PI WO 2002047696 A1 20020620 (200256)* DE 19p A61K031-715

RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ
NL OA PT SD SE SL SZ TR TZ UG ZM ZW

W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK
DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR
KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT
RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZM ZW

US 2002128226 A1 20020912 (200262)

A61K031-727

AU 2002021935 A 20020624 (200267)

A61K031-715

ADT WO 2002047696 A1 WO 2001-EP14261 20011205; US 2002128226 A1 US 2001-14472
20011214; AU 2002021935 A AU 2002-21935 20011205

FDT AU 2002021935 A Based on WO 200247696

PRAI DE 2000-10063006 20001216

IC ICM A61K031-715; A61K031-727

ICS A61K031-70; A61P019-02

AB WO 200247696 A UPAB: 20020903

NOVELTY - Low-molecular heparin (I), having an average molecular weight of 3000-10000, is used for the preparation of medicaments for the prophylaxis or therapy of diseases associated with elevated activity of at least one of the matrix metalloproteinases (MMP's) neutrophilic collagenase, aggrecanase, hADAMTS1 and gelatinase A.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for the use of ADAMTS1 for the production of a test kit for the determination of aggrecanase inhibitors (II), by incubating ADAMTS1, a substrate and (II) then determining the neoepitopes generated due to the aggrecanase activity.

ACTIVITY - Osteopathic; Antiarthritic; Vulnerary; Antiinflammatory; Analgesic.

MECHANISM OF ACTION - Matrix metalloprotease (MMP) inhibitor.

Enoxaparin (Ia) inhibited neutrophilic collagenase (MMP-8) by 28% and gelatinase A (MMP-2) by 70% at a concentration of 1 micro g/ml.

USE - (I) is specifically used for combating degenerative joint diseases (such as osteoarthritis, spondylitis, cartilage damage after joint trauma or prolonged joint immobilization after meniscus or patella damage or torn ligaments), connective tissue disorders (such as collagenosis, wound healing deficiency or periodontal disease), chronic movement disorders (such as inflammatory, immunologically metabolically induced acute or chronic arthritis, arthropathy or myalgia) or bone metabolism disorders (all claimed).

ADVANTAGE - (I) are potent and specific inhibitors of the appropriate MMP's. In particular **enoxaparin** (Ia) strongly inhibits neutrophilic collagenase (MMP-8), aggrecanase, hADAMTS1 and gelatinase A (MMP-2), but has almost no effect on MMP's 1, 3, 13 and 14.

Dwg.0/0

FS CPI

FA AB; DCN

MC CPI: B04-C02E1; B14-C01; B14-C03; B14-C09; B14-D07C; B14-N06B; B14-N17B

TECH UPTX: 20020903

TECHNOLOGY FOCUS - PHARMACEUTICALS - Preferred Compounds: (I) is one or more of **enoxaparin** (Ia) (most preferred), nardroparin, dalteparin, certroparin, parnaparin, reviparin, ardeparin/RD, heparin/RDH and/or tinzaparin.

ABEX

SPECIFIC COMPOUNDS - Compounds enoxaparin (Ia), nardroparin, dalteparin, certroparin, parnaparin, reviparin, ardeparin/RD, heparin/RDH and

tinzaparin are specifically claimed as (I).

ADMINISTRATION - (I) is preferably administered by subcutaneous, intraperitoneal, intravenous or especially intraarticular injection, specifically at a dose of 0.005-200 (preferably 0.01-40) mg (or particularly a daily dose of 0.01-500 (preferably 20-100) mg in the case of enoxaparin (Ia)), although rectal, oral, inhalative or transdermal administration may also be used (all claimed).

L171 ANSWER 2 OF 2 WPIX (C) 2003 THOMSON DERWENT

AN 2000-442268 [38] WPIX

DNC C2000-134436

TI Use of low molecular weight heparin for treatment and prevention of motor neuron disease, e.g. amyotrophic lateral sclerosis.

DC B04

IN STUTZMANN, J M; UZAN, A; STUTZMANN, J

PA (AVET) AVENTIS PHARMA SA; (STUT-I) STUTZMANN J; (UZAN-I) UZAN A

CYC 83

PI WO 2000035462 A1 20000622 (200038)* FR 18p A61K031-727

RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL
OA PT SD SE SL SZ TZ UG ZW

W: AE AL AU BA BB BG BR CA CN CR CU CZ DM EE GD GE HR HU ID IL IN IS
JP KP KR LC LK LR LT LV MA MG MK MN MX NO NZ PL RO RU SG SI SK SL
TR TT UA US UZ VN YU ZA

FR 2787329 A1 20000623 (200038) A61K031-738

AU 2000015697 A 20000703 (200046) A61K031-727

NO 2001002849 A 20010608 (200154) A61K000-00

EP 1140119 A1 20011010 (200167) FR A61K031-727

R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT
RO SE SI

US 2002040013 A1 20020404 (200227) A61K031-727

JP 2002532431 W 20021002 (200279) 19p A61K031-727

ADT WO 2000035462 A1 WO 1999-FR3109 19991213; FR 2787329 A1 FR 1998-15919

19981217; AU 2000015697 A AU 2000-15697 19991213; NO 2001002849 A WO

1999-FR3109 19991213, NO 2001-2849 20010608; EP 1140119 A1 EP 1999-958308

19991213, WO 1999-FR3109 19991213; US 2002040013 A1 Cont of WO 1999-FR3109

19991213, US 2001-881267 20010614; JP 2002532431 W WO 1999-FR3109

19991213, JP 2000-587782 19991213

FDT AU 2000015697 A Based on WO 200035462; EP 1140119 A1 Based on WO

200035462; JP 2002532431 W Based on WO 200035462

PRAI FR 1998-15919 19981217

IC ICM A61K000-00; A61K031-727; A61K031-738

ICS A61P009-10; A61P025-00; A61P025-28; A61P043-00

ICA C08B037-10

AB WO 200035462 A UPAB: 20000811

NOVELTY - Use of low molecular weight heparin (I) to produce a medicine that promotes survival and/or growth of motor neurons.

ACTIVITY - Cytoprotective; neurotrophic.

A mixed culture of astrocytes and motor neurons (MN) was treated with the low molecular weight heparin **Enoxaparine** (Ia), then after 2-3 days the number of viable MN assessed from:

(i) immunoreactivity for the homoprotein Islet1/2 or for neurofilaments; and

(ii) presence of neurites longer than 10 cell diameters.

At 10 ng/ml (Ia), the mean number of MN was 196% and the mean MN survival was 120.7%, both relative to a vehicle-only control as 100%. The number of very large MN was 66 per cubic centimeters (cc) in presence of (Ia) compared with 38 per cc in a control.

MECHANISM OF ACTION - None given.

No biological data given.

USE - (I) is specifically used to treat and/or prevent motor neuron diseases, particularly amyotrophic lateral sclerosis, progressive spinal muscular atrophy and infantile muscular atrophy.

Dwg.0/0
 FS CPI
 FA AB; DCN
 MC CPI: B04-C02E; B14-J01; B14-J05A
 TECH UPTX: 20000811

TECHNOLOGY FOCUS - ORGANIC CHEMISTRY - Preferred Heparin: (I) has molecular weight 1-10, preferably 4-5, kiloDaltons (kDa). It comprises oligosaccharides that have, at one end, a 2-O-sulfo-4-enopyranosuronic acid residue and is produced by depolymerization of a heparin ester with base, particularly the benzyl ester with sodium hydroxide. (I) is particularly used as its sodium or calcium salt.

ABEX SPECIFIC COMPOUNDS - Eleven different low molecular weight heparin molecules are claimed, e.g. enoxaparine, nadroparine and parnaparine.

ADMINISTRATION - (I) are administered by intravenous or subcutaneous injection, orally, rectally, etc., typically at 0.2-0.4 mg/kg/day subcutaneously.

=> d his

(FILE 'HOME' ENTERED AT 15:54:18 ON 31 JAN 2003)
 SET COST OFF

FILE 'REGISTRY' ENTERED AT 15:54:31 ON 31 JAN 2003
 E ENOXAPARIN/CN

L1 2 S E3,E4

FILE 'MEDLINE' ENTERED AT 15:55:05 ON 31 JAN 2003

L2 36431 S L1
 L3 1039 S ENOXAPARIN?
 L4 55221 S HEPARIN
 L5 832 S L3 AND L2,L4
 L6 1039 S L3,L5
 E ENOXAPARIN/CT
 L7 677 S E3-E20
 E E3+ALL
 L8 677 S E65+NT
 L9 128 S CLEXANE OR EMT 966 OR EMT 967 OR EMT966 OR EMT967 OR LOVENOX
 L10 1091 S L3,L7-L9
 E ENOXAPARIN/CN
 L11 677 S E3
 L12 1091 S L10,L11
 E MATRIX METALLOPROTEASE/CT
 E E15+ALL
 L13 6626 S E11+NT
 L14 7779 S MATRIX() (METALLOPROTEINASE OR METALLOPROTEASE OR METALLO() (PR
 L15 2831 S MMP8 OR MMP2 OR MMP() (8 OR 2)
 L16 3015 S NEUTROPHIL COLLAGENASE OR AGGRECANASE OR HADAMTS 1 OR GELATIN

FILE 'REGISTRY' ENTERED AT 16:00:18 ON 31 JAN 2003

E AGGRECANASE/CN
 L17 1 S E3
 E HADAMTS/CN
 E GELATINASE/CN
 L18 1 S E16
 E NEUTROPHIL COLLAGENASE/CN
 E COLLAGENASE/CN
 L19 1 S E3
 L20 3 S NEUTROPHIL(L)COLLAGENASE
 E MATRIX METALLOPROTEINASE/CN
 L21 1 S E3

L22 406 S MATRIX(L) (METALLOPROTEINASE OR METALLOPROTEASE)

FILE 'MEDLINE' ENTERED AT 16:02:25 ON 31 JAN 2003

L23 11 S L17-L22

L24 9723 S L13-L16,L23

L25 0 S L12 AND L24
E DEGENERATIVE JOINT/CT
E JOINT DISEASE/CT
E E5+ALL

L26 20 S C5./CT AND L12
E JOINT/CT
E JOINTS/CT
E E3+ALL

L27 22 S L12 AND A2./CT
E CONNECTIVE TISSUE/CT

L28 10 S L12 AND E3+NT

L29 1 S E5+NT AND L12
E WOUND/CT

L30 2 S E6+NT AND L12

L31 0 S E19+NT AND L12

L32 55 S E68+NT AND L12
E PERIODONTAL DISEASE/CT

L33 0 S E4+NT AND L12

L34 1 S C7./CT AND L12

L35 1 S L12 AND (A14.254. OR G10.549. OR E6. OR A12.300. OR A12.383.)
E BONE METABOLISM/CT
E "BONE AND BONES"/CT

L36 10 S E3+NT AND L12
E BONE DISEASE/CT

L37 17 S E9+NT AND L12

L38 32 S A11./CT AND L12
E LOCOMOTER/CT

L39 1 S E4+NT AND L12
E E5+ALL

L40 0 S E2+NT AND L12
E OSTEOARTHROSE/CT
E E4+ALL

L41 1 S E2+NT AND L12
E SPONDYLOSE/CT
E E4+ALL

L42 0 S E2+NT AND L12
E CHONDROLYSIS/CT

L43 0 S E3/BI AND L12
E COLLAGENOSE/CT

L44 0 S E3/BI AND L12
E INFLAMMATION/CT

L45 3 S E3+NT AND L12

L46 30 S ?INFLAM? AND L12
E CHRONIC ARTHRIT/CT
E E4+ALL

L47 0 S E2+NT AND L12
E ARTHROPATH/CT
E E6+ALL

L48 0 S E2+NT AND L12
E MYALGIA/CT
E E4+ALL

L49 0 S E2+NT AND L12

L50 0 S E8+NT AND L12

L51 0 S L12 AND DEGEN?(L) JOINT

L52 0 S L12 AND CONNECTIVE TISSUE

L53 1 S L12 AND WOUND?(L) HEAL?

L54 0 S L12 AND ?PERIODONT?

L55 0 S L12 AND LOCOMOTER

L56 0 S L12 AND LOCOMOTION
 L57 2 S L12 AND BONE(L)METABOL?
 L58 32 S L12 AND (OSTEOARTHR? OR SPONDYLO? OR CHONDROLYS? OR COLLAGENO
 L59 140 S L26-L58
 L60 21 S L59 NOT AB/FA
 L61 119 S L59 NOT L60
 L62 0 S L61 AND L24
 L63 0 S L61 AND MMP?
 L64 75 S L61 AND L7
 L65 57 S L61 AND L7/MAJ
 L66 51 S L65 AND PY<=2001
 SEL DN AN 10 21 51
 L67 3 S E1-E9
 L68 5 S L34,L35,L67 AND L12-L16,L23-L67
 L69 18 S L64 NOT L65-L68
 L70 44 S L61 NOT L64-L69
 SEL DN AN 2
 L71 1 S L70 AND E10-E12
 L72 6 S L68,L71 AND L12-L16,L23-L71

FILE 'REGISTRY' ENTERED AT 16:35:39 ON 31 JAN 2003

FILE 'MEDLINE' ENTERED AT 16:35:53 ON 31 JAN 2003

FILE 'HCAPLUS' ENTERED AT 16:37:17 ON 31 JAN 2003

L73 457 S L3 OR L9
 L74 393 S L1 AND L73
 L75 457 S L73,L74
 E ENOXAPAR
 L76 415 S E1,E4-E7,E9,E10
 E ENOXA
 L77 459 S L75,L76
 E KERN C/AU
 L78 111 S E3-E10,E14,E24,E29,E30
 E HOERBER C/AU
 L79 1 S E4
 E HORBER C/AU
 L80 3 S E3,E4
 E HEORBER C/AU
 E BARTNIK E/AU
 L81 66 S E3-E6
 E HAUS SEUFFERT P/AU
 L82 5 S E3,E4
 E SEUFFERT/AU
 L83 0 S L77 AND L78-L82
 L84 1 S L1 AND L78-L82
 L85 9878 S L14-L16
 L86 20995 S L17-L22
 L87 3 S L77 AND L85,L86
 L88 41112 S L1 OR HEPARIN
 L89 2641 S L88 AND (LMW OR LOW() (MOL OR MOLECUL?) () (WT OR WEIGHT))
 L90 2756 S L77,L89
 L91 1 S L79-L82 AND L90
 L92 1 S L84,L91
 L93 23 S L90 AND L85,L86
 L94 11 S L93 AND (1 OR 63)/SC,SX
 L95 12 S L93 NOT L94
 E ARTHRITIS/CT
 L96 20295 S E3+NT
 E E3+ALL
 E E1 9+ALL
 E ARTHRITIS/CT
 E E3+ALL

L97	4499	E E19+ALL S E5, E4 E CARTILAGE/CT E E3+ALL
L98	14562	S E7+NT E CONNECTIVE TISSUE/CT E E3+ALL
L99	245883	S E3+NT E JOINT/CT E E6+ALL
L100	8803	S E6, E5+NT E E13+ALL
L101	2576	S E2+NT E PERIODONT/CT E E5+ALL
L102	2587	S E2 E PERIODONT/CT E E11+ALL
L103	6922	S E8+NT E WOUND/CT
L104	2248	S E3+NT
L105	2299	S E9+NT E E6+ALL
L106	6992	S E2+NT E E10+ALL
L107	649	S E4 E E7+ALL E E11+ALL E ANTIINFLAM/CT E E5+ALL E E2+ALL
L108	48208	S E4, E5, E3+NT E CHONDROCYT/CT E E4+ALL
L109	14562	S E7+NT
L110	20	S E9 E MUSCULOSKELT/CT E MUSCULOSKELET/CT
L111	92613	S E5+NT E OSTEOARTHRT/CT E E4+ALL
L112	2777	S E11, E12, E10+NT E MYALGIA/CT E E3+ALL
L113	118	S E2 E LOCOMOTOR/CT E E6+ALL
L114	52	S E2 E BONE METABOLISM/CT E METABOLISM/CT
L115	88	S E17 (L) BONE
L116	21427	S BONE (L) METABOL? E SPONDYLOS/CT E BONE, DISEASE/CT
L117	57335	S E3+NT E E21+ALL
L118	760	S E2
L119	41	S BONE, DISEASE/CT (L) SPONDYLO? E CHONDROLYS/CT E COLLAGENOSSES/CT E COLLAGEN DISEASE/CT E E3+ALL
L120	2355	S E1, E2

L121 72918 S E INFLAMMATION/CT
 S E3+NT
 E ARTHROPATH/CT
 E E4+ALL
 L122 1240 S E2
 E ARTHRITID/CT
 L123 57335 S BONE, DISEASE+NT/CT
 L124 11 S SPINAL COLUMN/CT (L) SPONDYLOS?
 L125 169 S L90 AND L96-L124
 L126 4 S L125 AND L85,L86

FILE 'REGISTRY' ENTERED AT 17:41:41 ON 31 JAN 2003

L127 1 S 241475-68-3

FILE 'HCAPLUS' ENTERED AT 17:41:46 ON 31 JAN 2003

L128 1 S L127 AND L90
 SEL DN AN L126 1 4
 L129 2 S L126 AND E1-E6
 L130 2 S L92,L129
 L131 2 S L128,L130
 L132 113 S L1 (L) (THU OR BAC)/RL AND L125
 L133 32 S L132 NOT (?THROMB? OR ?COAGUL?)
 L134 106 S L132 AND (1 OR 63)/SC,SX
 SEL DN AN 55 11 33 43 105
 L135 5 S E7-E21
 L136 6 S L131,L135 AND L73-L126,L128-L135
 L137 5 S L136 NOT TUMOR/TI

FILE 'HCAPLUS' ENTERED AT 17:50:25 ON 31 JAN 2003

FILE 'EMBASE' ENTERED AT 17:50:39 ON 31 JAN 2003

L138 2859 S L3 OR L9
 E ENOXPARIN/CT
 E ENOXAPARIN/CT
 E E3+ALL
 L139 2857 S E1 OR E1-E7/BI
 L140 2862 S L138,L139
 E MUSCULOSKEL/CT
 L141 259 S E6+NT AND L140
 L142 27 S E22+NT AND L140
 L143 75 S E23+NT AND L140
 L144 0 S E36+NT AND L140
 L145 24 S E48+NT AND L140
 L146 21 S E53+NT AND L140
 E JOINT/CT
 L147 6 S E3+NT AND L140
 L148 0 S E35+NT AND L140
 L149 0 S E60+NT AND L140
 L150 0 S E74+NT AND L140
 E E 86+ALL
 E JOINT DISEASES/CT
 E E3+ALL
 L151 79 S E2+NT AND L140
 E CONNECTIVE TISSUE/CT
 L152 9 S E3+NT AND L140
 L153 22 S E13+NT AND L140
 E WOUND/CT
 L154 13 S (E3+NT OR E10+NT OR E14+NT) AND L140
 L155 3 S (E29+NT OR E30+NT) AND L140
 L156 3 S E37+NT AND L140
 L157 3 S E52+NT AND L140
 L158 3 S E81+NT AND L140
 E PERIODONT/CT

L159 1 S E8+NT AND L140
L160 0 S E48+NT AND L140
E BONE METABOLISM/CT
L161 3 S E3+NT AND L140
E METABOLIC BONE/CT
L162 113 S E4+NT AND L140
E LOCOMOTOR/CT
L163 0 S E8+NT AND L140
E E11+ALL
L164 24 S E2+NT AND L140
L165 314 S L141-L164
L166 309 S L165 AND ENOXAPARIN/CT
L167 81 S L165 AND *ENOXAPARIN/CT
L168 31 S L167 NOT AB/FA
L169 50 S L167 NOT L168

FILE 'WPIX' ENTERED AT 18:00:14 ON 31 JAN 2003

L170 22 S L3 OR L9
SEL DN AN 8 19
L171 2 S L170 AND E1-E4

FILE 'WPIX' ENTERED AT 18:01:33 ON 31 JAN 2003

FILE 'EMBASE' ENTERED AT 18:01:44 ON 31 JAN 2003

E MATRIX METALLOPROTEASE/CT
L172 3062 S E4+NT
L173 3140 S E4-E70
L174 4377 S E71+NT
L175 799 S E72-E108
L176 2226 S E109-E121
L177 3 S L140 AND L172-L176